About Eurofins

Eurofins Clinical Genetics India (ECGI) is one of the pioneer in molecular genetic testing and carrier screening for health and patient care using high throughput next-generation sequencing (NGS) technologies in India. ECGI strives to make the molecular genetic testing process affordable and efficient with actionable information for clinicians, patient and researchers.

With over 30,000 staff in 375 laboratories across 41 countries, offering 1,30,000 analytical methods, Eurofins Scientific is the world leader in food, environment, genomics and pharmaceutical products testing.

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Approved ECGI Partner’s Clinic / Center

Safe: Only 1 tube of 10ml expectant mother blood is required. Early screening at 9th-10th weeks of gestational age.

Accurate: aneuploidy analysed for with >99.9% T21 accuracy.

Trusted: Over 7 lacs tests conducted worldwide with a false positive rate as low as 0.2%.

Disclaimer: Eurofins clinical Genetics follows “The Pre-natal diagnostics techniques (Regulation and prevention of misuse) Act, 1994”, No Sex Determination is done. Sex determination is a punishable offence under Indian Penal Code.
Advantages
PreNatSure®
NIPS

Position Statement by American College of Medical Genetics
“All pregnant women should be given option of most sensitive screening test i.e. Non-Invasive Prenatal Screening (NIPS) using Massive Parallel Sequencing of cfDNA for Trisomies 21 (Down Syndrome), 18 (Edwards Syndrome), 13 (Patau Syndrome) and Sex chromosome conditions (Turner Syndrome, Triple X Syndrome, Klinefelter syndrome, Jacobs syndrome).”

- ECGI is the only company in India using proprietary Illumina NIPS Technology and approved Veriseq NIPT analysis software.

- Confident Quality Assessment: PreNatSure® | NIPS Analysis Software includes built-in QA of each sample to ensure the accuracy of generated results. Data input for each sample is assessed for DNA library yield, sequencing data quality, quantity, consistency & quality of NCV calculations. Batch-level quality and consistency are also monitored.

- Clear, Reliable Results: NCV scores from NIPS Analysis Software is used to aid in the detection and differentiation of euploid and aneuploid samples. The scores reflect normalized coverage of the test chromosome.

- PreNatSure® | NIPS can be carried between early gestational age of 10th week and allow sufficient time for further confirmational investigation.

- Only 1 tube of 10 ml blood is required in PreNatSure® | NIPS Streak tube.

- Low TAT – Result in 7 working days after receiving the sample @ ECGI laboratory facility, Bangalore.

- Can detect Aneuploidy even at Fetal Fraction (cfDNA) as low as 1.4-2.7%.

- High Accuracy: Massive Parallel Sequencing of cfDNA to generate 20 million reads per samples.

- False positive and False negative rate as low as 0.2%

- Sensitivity 99.9% & Specificity 99.7%.

- Method optimized to handle consanguineous couple, with egg donors, IVF and twin pregnancies.

What is Test Failure/False Positive

Test failure in NIPS is associated with no chromosomal call status. NIPS failure rates vary significantly based on the type of technology used. Using Massive Parallel Sequencing of cfDNA, the PreNatSure® | NIPS achieves the lowest test failure rate among various NIPS test. The experience of using NIPS in clinical practice confirms that abnormal results cannot be considered diagnostic. Pre-test counseling should emphasize this. Diagnostic genetic testing should always be offered following abnormal NIPS result.

Possible cause of false positive and false negative results from NIPS include:

- Confined placental mosaicism (CPM)
- Maternal mosaicism
- Statistical false positive result
- Co-twin demise
- Fetoplacental mosaicism

Pre / Post test NIPS Genetic Counseling

If required, ECGI have dedicated resource and experience in form of trained genetic counselor having thorough pre/post natal genetic knowledge to ensure patients make informed decisions.

Pre-test counseling considerations

- PreNatSure® | NIPS should be an informed choice & offer to high risk pregnancies.

- NIPS screens for Trisomies 21 (Down Syndrome), 18 (Edwards Syndrome), 13 (Patau Syndrome) and Sex chromosome conditions (Turner Syndrome, Triple X Syndrome, Klinefelter syndrome, Jacobs syndrome).

Post-test counseling considerations

- All results should be reviewed in the context of the clinical, medical and family history.

- It is recommended that no irreversible action should be made based on NIPS results alone.

- Open neural tube defect screening is not part of NIPS and should be offered separately.